

New Hampshire Sea Grant Program 2011 NSGO Review

Michael Liffmann

Program Management

- Management staff (NH SG Executive Committee)
 - Director, Jonathan (Jon) Pennock (.40 FTE*)
 - Asst. Dir. (Research), Stephen Jones (.25 FTE*)
 - Asst. Dir. (Education), Mark Wiley (.25 FTE*)
 - Asst. Dir. (Communications), Steve Adams (.42 FTE*)
 - Asst. Dir. (Extension), Ken LaValley (.25 FTE*)
 - Fiscal Administrator- Lisa Scigliano**

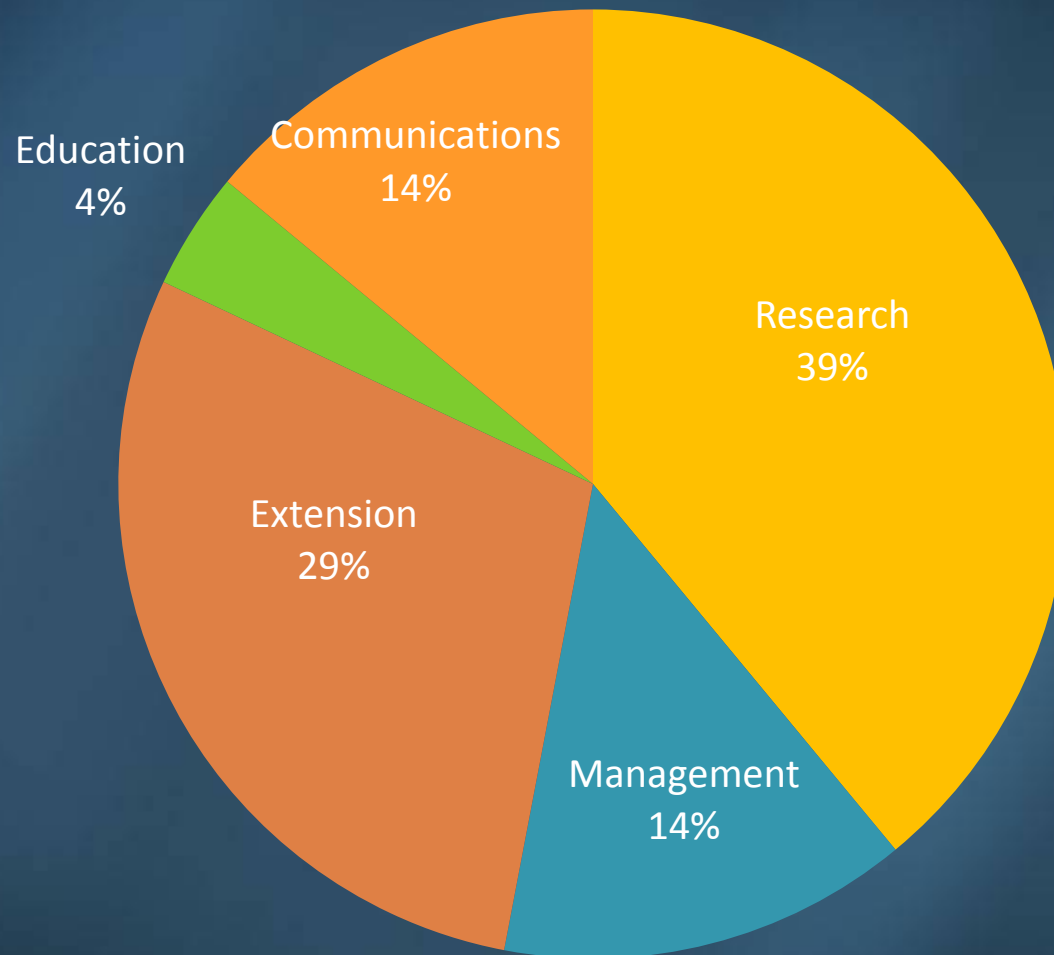
Functional Area	# of individuals	# of FTEs supported by SG	# of FTEs supported by match/leverage
Mgt/Admin	4.00	0.63	0.35
Comm.	3.00	1.30	1.00
Ext.	7.00	2.32	2.28
Education	3.00	0.00	0.15
Research	36.00	2.60	1.60

Small Program

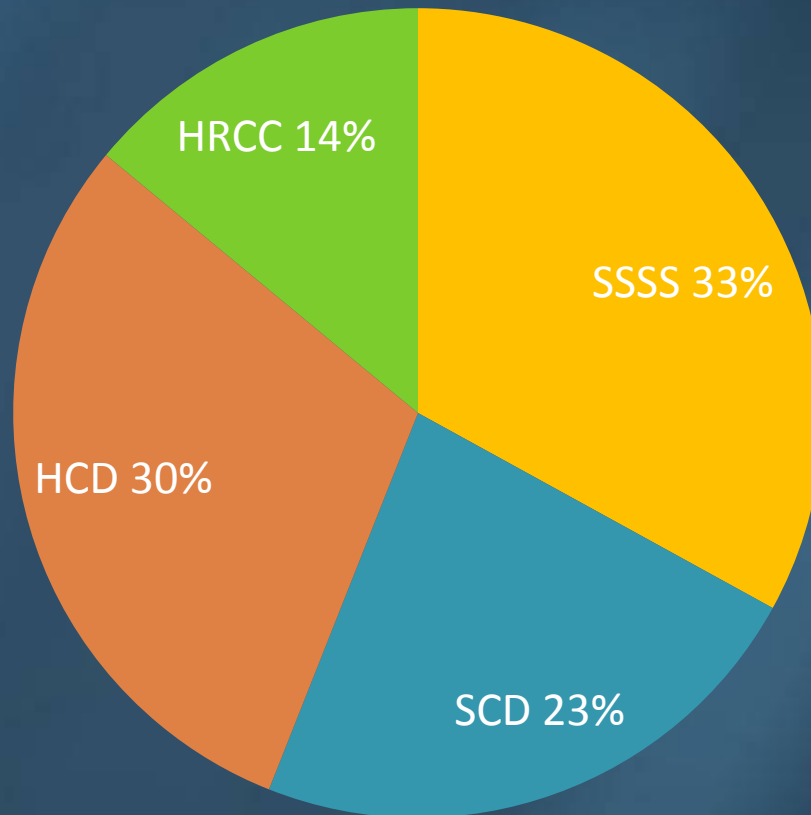
* FTE Committed to Program Management

** FTE Variable as Required; Supported by UNH

NH Program Budget -Functional Areas



NH Budget- Focus Areas



NH-Significant Program Changes- since Jan. 2010

- Director Pennock is new SGA President 2011-12 and Mark Wiley is Chair, SGEN;
- Erik Chapman-replaced retired Rollie Barnaby as fisheries specialist. Has expertise in climate change and fisheries;
- Michael Chambers-Aquaculture Extension Spec.
- Theresa Hamer- will replace Lisa Scigliano as Fiscal Officer. Lisa will continue to help with grants;
- Working on revising Strat. Plan—2011-13

NH-Requested Changes to 2010-2013 Program Plan

- Revising Plan for 2011-13 period. No large scale changes anticipated.

NH Performance Measures

- Characterize status and change within critical estuarine and coastal habitats and keystone organisms in the Gulf of Maine region through the assessment of ecosystem processes & conditions;
- Develop and advance approaches for restoration of critical habitats in the Gulf of Maine and regional estuaries;
- Develop new management strategies that utilize an ecosystem approach to stewardship of the fisheries resource.

NH--Contribution to National Performance Measures and Metrics (2009)

- HACCP -- Number of people with new certifications (3)
- K-12 Students reached through educators (2,025)
- MS/MA- 3 new, 3 cont., 1 degree
- PhD- 2 new, 4 cont., 1 degree
- SG funds and match \$1.7M
 - Leveraged funds (managed by SG) \$ 526,086
 - Leveraged funds (influenced by SG) \$ 398,855

NH-Program Impacts

Fish Catchers, Consumers and Retailers Benefit from “Buy Local” Initiatives

In 2009, the N.H. Commercial Fisherman's Association (NHCFA) and the Yankee Fishermen's Cooperative partnered with the N.H. Sea Grant commercial fisheries program and local seafood groups, restaurants and fish markets to develop a local brand for N.H. seafood.

The brand was unveiled on July 1, 2009, and since then 23 seacoast businesses have become N.H. Fresh and Local brand partners. In addition to branding, in 2009 fishermen developed community supported fisheries (CSFs) for shrimp and fish with more than 400 local share holders, resulting in an additional sale of 12,000 pounds of shrimp valued at \$20,000 and 21,000 pounds of fish filets valued at \$17,000.

NH-Program Impacts

Goals: A sustainable supply of safe seafood to meet the public demand. A healthy domestic seafood industry that harvests, produces, processes and markets seafood responsibly and efficiently.

Performance Measure/Measurable Objective: Number of fishermen using new techniques.

Title: Reducing Bycatch and Increasing Size Selectivity in the Northern Shrimp Fishery

The reappearance of robust northern shrimp stocks could translate into increased economic benefits and stability for harvesters and processors. However, the prolonged period of intense management and reduced shrimp landings forced regional markets to source product from imported markets. To compete, fishermen need to improve quality and consistency to increase local demand and obtain higher prices.

Gear has been adopted by 20 fishing boats from Maine, New Hampshire and Massachusetts.

NH-Program Impacts

UNH Marine Docents teach thousands of children and adults each year about marine science related to the Gulf of Maine ecosystem

There is a strong need for educational programs to deliver marine science education programs to the public and the UNH Marine Docents helped improve ocean science literacy among thousands of students and adults. The UNH Marine Docent Program, now in its 32nd year, trained 21 new Docents last year, bringing the total to 180 docents who volunteered 5,685 hours during their activities. Docents taught 112 SeaTrek programs for 4,011 students in 100 schools, five Day of the Coast programs to 1,000 students at five schools, and the half-day Floating Lab program to 275 students from four schools. Thousands of children and adults who attended various festivals learned about marine science through docent exhibits and activities.

NH-2009 Research Accomplishments

Trace the movement of mercury through the Great Bay estuarine food web

Estuaries such as Great Bay are ideal locations for the accumulation of contaminants like the heavy metal mercury that settle out from the atmosphere, wastewater discharges and surrounding rivers and industrial land use. Little is known about mechanisms and level of mercury cycling and methylmercury production among organisms and their environment . Researchers collected samples of sediments and porewater, and organisms from four sites and concluded that total mercury contamination was similar at both the Portsmouth and Squamscott mudflats, but methylmercury concentrations were higher in organisms collected in Portsmouth.

Researchers now have a clearer picture of how mercury and methylmercury cycles among estuarine sediments, porewater and organisms.

NH-2009 Research Accomplishments

UNH Researchers Determine that Coal Tar-based Sealcoat is a Source of PAHs in Stormwater Runoff

Previous research demonstrated that coal tar-based sealcoats contain up to 20% PAHs by weight. In the environment, they attach to organic matter such as leaves and inorganic particles like silt and clay, from where they may be ingested by organisms or buried in sediments.

Researchers at the UNH Stormwater Center studied the impact of sealcoat PAHs on stormwater runoff and they concluded that coal tar-based pavement sealcoat is a significant source of PAHs in the environment . They are working with the EPA, the sealcoat industry and others to ameliorate the situation.